**EAST Search History**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--------------|-----|------------------|---------|------------|
| L1 | 9286 | (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) AND (stiffness stiff stress stressing force forced forcing load loaded loading) AND (adhesive Adhesion Adhesiveness Adhesively bond bonded bonding fusion fusing fuse Glue Glueing Glued ) AND (joint join joining joined junction) AND (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air $1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) AND (limit bound threshold tolerance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/27 08:25 |
| L2 | 3633 | L1 AND 703/1.ccls. 703/2.ccls. 703/8.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/27 08:25 |

| L3 | 72 | 2 AND ((layer sheet plane) WITH (joint join joining joined junction)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/27 08:27 |
|----|----|-----|-----|----|----|-----|
| L4 | 65 | 3 AND (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air$1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/27 08:27 |
| L9 | 7 | (US-4912657-$ or US-6560570-$ or US-4849913-$ or US-5594651-$ or US-5343385-$ or US-6766206-$ or US-7203628-$).did. | USPAT | OR | ON | 2009/03/27 10:12 |
| L10 | 5 | 9 AND (layer sheet plane) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/27 10:12 |
| S1 | 10 | ("4849913" \| "4912657" \| "5343385" \| "5594651" \| "6560570").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/25 16:56 |
| S2 | 0 | Analysis stiffness adhesive joints car bodies | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | WITH | ON | 2009/03/25 17:22 |
| S3 | 0 | Analysis stiffness adhesive joints car bodies | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | SAME | ON | 2009/03/25 17:22 |
| S4 | 6 | stiffness adhesive joints car bodies | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | SAME | ON | 2009/03/25 17:37 |

| S5 | 0 | S4 AND (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell$1model $4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/25 17:42 |
| S6 | 5 | (US-4912657-$ or US-6560570-$ or US-4849913-$ or US-5594651-$ or US-5343385-$).did. | USPAT | OR | ON | 2009/03/25 18:19 |
| S7 | 5 | S6 AND (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell$1model $4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/25 18:19 |
| S8 | 2 | ("20060217942").PN. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2009/03/25 20:46 |

| S11 | 18651 | (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) AND (stiffness stiff stress stressing force forced forcing load loaded loading) AND (adhesive Adhesion Adhesiveness Adhesively bond bonded bonding fusion fusing fuse Glue Glueing Glued ) AND (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air$1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:36 |
| S12 | 9286 | (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) AND (stiffness stiff stress stressing force forced forcing load loaded loading) AND (adhesive | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:36 |

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|---|---|---|---|---|---|---|
| | | Adhesion Adhesiveness Adhesively bond bonded bonding fusion fusing fuse Glue Glueing Glued ) AND (joint join joining joined junction) AND (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air $1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) AND (limit bound threshold tolerance) | | | | |
| S13 | 18 | (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) SAME (stiffness stiff stress stressing force forced forcing load loaded loading) SAME (adhesive Adhesion Adhesiveness Adhesively bond bonded bonding fusion fusing fuse Glue Glueing Glued ) SAME (joint join joining joined junction) SAME (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air$1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) SAME (limit bound | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:38 |

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|---|---|---|---|---|---|---|
| | | threshold tolerance) | | | | |
| S14 | 122 | (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) SAME (stiffness stiff stress stressing force forced forcing load loaded loading) SAME (adhesive Adhesion Adhesiveness Adhesively bond bonded bonding fusion fusing fuse Glue Glueing Glued ) SAME (joint join joining joined junction) SAME (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air$1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:48 |
| S15 | 104 | S14 not S13 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:51 |
| S16 | 34 | S15 AND (limit bound threshold tolerance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:52 |

| S17 | 1 | S15 AND "703".clas. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 12:56 |
|---|---|---|---|---|---|---|
| S18 | 5 | ("5544458" \| "5555406" \| "5729463" \| "6081654" \| "6186011").PN. OR ("6766206").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/03/26 13:00 |
| S19 | 3 | S18 AND (limit bound threshold tolerance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 13:00 |
| S20 | 2 | S18 not S19 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 13:02 |
| S21 | 6 | (US-4912657-$ or US-6560570-$ or US-4849913-$ or US-5594651-$ or US-5343385-$ or US-6766206-$).did. | USPAT | OR | ON | 2009/03/26 13:11 |
| S22 | 2 | S12 S21 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/26 13:11 |
| S23 | 9 | ("4849913").URPN. | USPAT | OR | ON | 2009/03/26 13:11 |
| S24 | 20 | ("5594651").URPN. | USPAT | OR | ON | 2009/03/26 13:12 |
| S25 | 26 | (S23 S24) AND (CAD CAE (computer ADJ aided ADJ design) (computer ADJ aided ADJ engineering) (shell near3 model$4) shell $1model$4 (numerical ADJ analysis) numerical $1analysis (continuous ADJ mathematics) continuous $1mathematics (((finite adj2 element) (finite ADJ2 element) finite | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 13:13 |

|  |  | $1element ) adj2 (analysis model$4)) FEA FEM NASTRAN SYSNOISE ABAQUS) |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| S27 | 22 | S25 AND (limit bound threshold tolerance) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 13:15 |
| S28 | 16 | S27 AND (vehicle spacecraft space$1craft craft satellite "launch vehicle" "Space Shuttle" aircraft air$1craft airplane air$1plane plane avionics railcar rail$1car subway car automobile bus buses busses train) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 13:15 |
| S29 | 0 | S25 AND ((layer sheet plane) WITH (joint join joining joined junction)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:05 |
| S30 | 0 | (S23 S24) AND ((layer sheet plane) WITH (joint join joining joined junction)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:05 |
| S31 | 1724 | S12 AND ((layer sheet plane) WITH (joint join joining joined junction)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:06 |
| S32 | 2341 | S12 AND (Volume WITH (total totality sum whole entire entirety)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:10 |
| S33 | 4 | (S23 S24) AND (Volume WITH (total totality sum whole entire entirety)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:11 |

| S34 | 337 | S31 S32 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | AND | ON | 2009/03/26 15:12 |
| S35 | 23 | (S23 S24) AND Volume | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:14 |
| S36 | 26 | (S23 S24) AND (total totality sum whole entire entirety) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:15 |
| S37 | 23 | (S23 S24) AND (layer sheet plane) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/03/26 15:37 |

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